MULTIMEDIA UNIVERSITY

STUDENT ID NO

MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 2, 2016/2017 SESSION

TIC2211 – INTERNET COMPUTING
TIS2151 – WEB APPLICATION DEVELOPMENT

(All sections / Groups)

6th March 2017
2.30 p.m. – 4.00 p.m.
(2 Hours)

INSTRUCTIONS TO STUDENTS

1. This Question paper consists of 4 pages with 4 Questions only.

2. Attempt **ALL FOUR** questions. All questions carry equal marks and the distribution of the marks for each question is given.

3. Please print all your answers in the answer booklet for each questions answered.

Question 1

a) Fill in the blanks in each of the following statements regarding history and evolution of Internet and WWW:

i. The protocol for communicating over the Arpanet is known as _____.

[1 mark]

ii. A DNS server maintains a database of _____ and their corresponding IP addresses and performs the translations automatically.

[1 mark]

iii. Web 2.0 embraces an architecture of _____, a design that encourages user interaction and community contributions.

[1 mark]

b) Write the code to create the following form elements:

i. A field labeled "Number:" that accepts even numbers from 0 to 50, with default value of 20.

[2 marks]

ii. A field labeled "Mobile:" that accepts number in this format 013-3331234. Use placeholder to indicate desired format in the field.

[1.5 marks]

iii. A field labeled "Devices:" that has autocomplete feature enabled and list the following as options for the user to select : Laptop, Desktop and Mobile.

[2.5 marks]

iv. Add the code to bypass validation for all the fields in the form.

[1 mark]

Continued...

Question 2

a) Fill in the blanks in each of the following statements related to CSS in HTML5.

i. If the user defines font-size in a user style sheet, the author style has _____ precedence over the user style.

ii. The _____ attribute defines the number of pixels that the box shadow will appear to the left or right of the box.

iii. Styles may be defined by a user, an author or a user agent. An example of a user agent is _____.

[3 marks]

b) Using embedded CSS and HTML, write the code to create a style class called hover for div element to apply these styles whenever a cursor is over the div:

i. Set the border to 2px wide with solid line in blue.

[1 mark]

ii. Use a radial gradient as the background for the div with the gradient center at the center of the div. The colors for the gradient are yellow, green and blue.

[1 mark]

iii. Set the top right corner to be rounded with 10px radius.

[1 mark]

iv. Set the shadow of the div to be 25px towards the bottom, 15px towards the left, have a blur radius of 30px and purple in color.

[1 mark]

v. Apply the style class to a div in the html document.

[1.5 mark]

c) Write the HTML code to link a html document to and external CSS file named "styles.css" that is in the same folder as the HTML file.

[1.5 marks]

Continued...

Question 3

a) Fill in the blanks in each of the following statements related to JavaScript in HTML5.

i. All variables declared in a JavaScript function definitions are _____ variables.

[1 mark]

ii. Conditions in if statements can be formed using the _____ and _____ operators.

[2 marks]

iii. The _____ of an identifier is the portion of the program in which the identifier can be referenced.

[1 marks]

b) Write JavaScript statements to print the integers from 5 to 30 using a while loop and the counter variable *i*. Assume that the variable *i* has been declared but not initialized. Print only 5 integers per line.

[Hint: use the calculation i%5. When the value of this expression is 0, start a new paragraph.]

[4 marks]

c) Write JavaScript statements that perform the following operations for a one-dimensional array:

i. Set the 15 elements of array *counts* to zeros using for..in loop.

[1 mark]

ii. Add 2 to each of the 20 elements of array *bonus* using for loop.

[1 mark]

Continued...

Question 4

a) Assume that we have a MySQLi database called Books that has 3 tables, namely Authors, AuthorISBN and Titles. Complete the PHP code to do the following:

```
<html>
<head><title>My Database</title></head>
<body>

<?php
// Connect to MySQL
$link = mysqli_connect("localhost", "root", "");
 ...
 ...

?>
</body>
</html>
```

i. Select all columns from the table Titles.

[1 mark]

ii. Select the columns AuthorID, FirstName and Lastname from the table Authors where the author's first name starts with N in ascending order by LastName.

[2 marks]

iii. Update the LastName to "Bloomwood"for the row in table Authors that has the Firstname equals to "Becky".

[1 mark]

b) Write a PHP function called *product* that takes in 2 values and return the product of the 2 values. Write PHP code that calls that function to display the product of 2 and 16.

[3 marks]

c) Write PHP codes for the following:

i. Create a cookie named *user* and assign "Ahmad" as the value.

[1 mark]

ii. Add a parameter to code in part *i)* so the cookie will expire after TWO hours.

[1 mark]

iii. Write a code to check if the cookie *user* has been set. If it has, display the value of the cookie.

[1 mark]

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